

Fig. 1

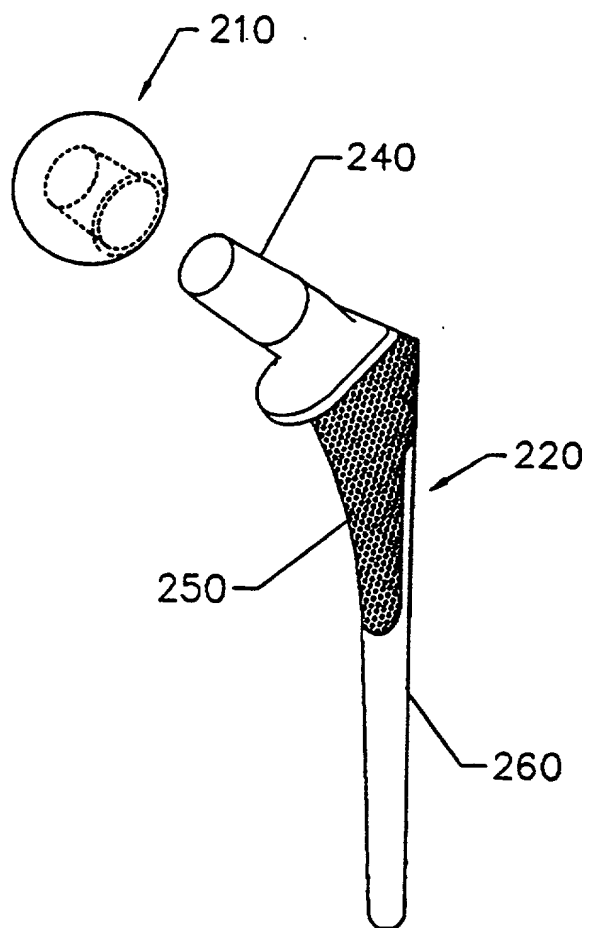
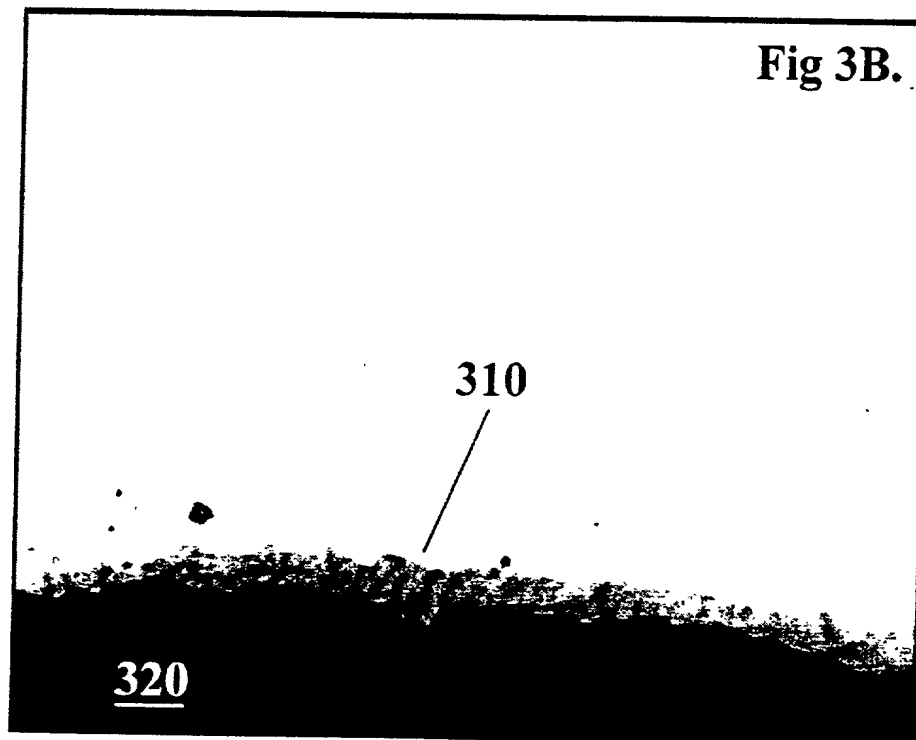
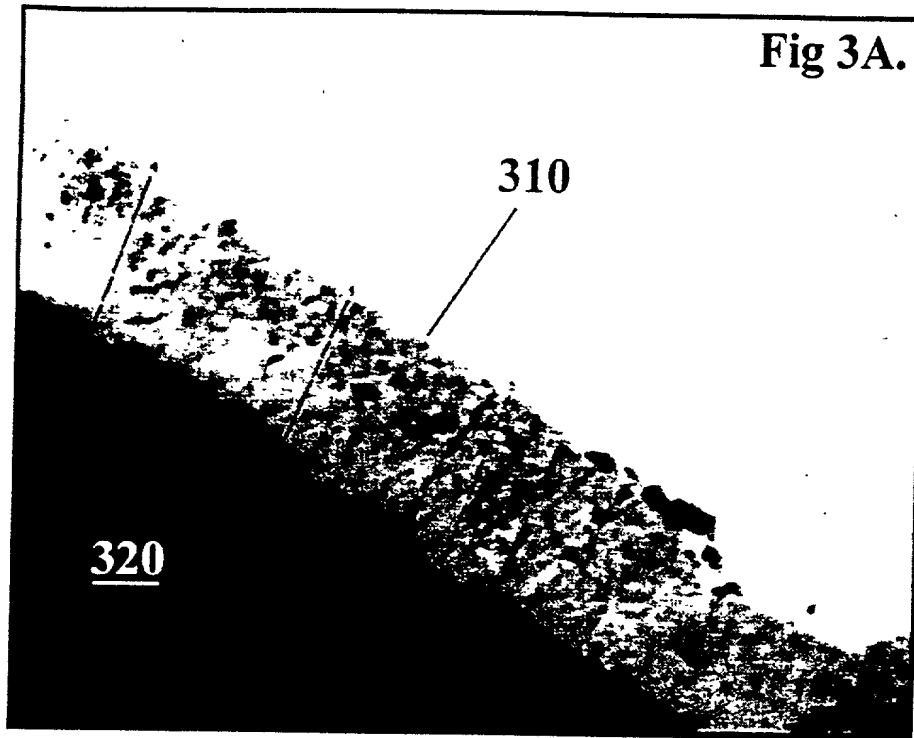
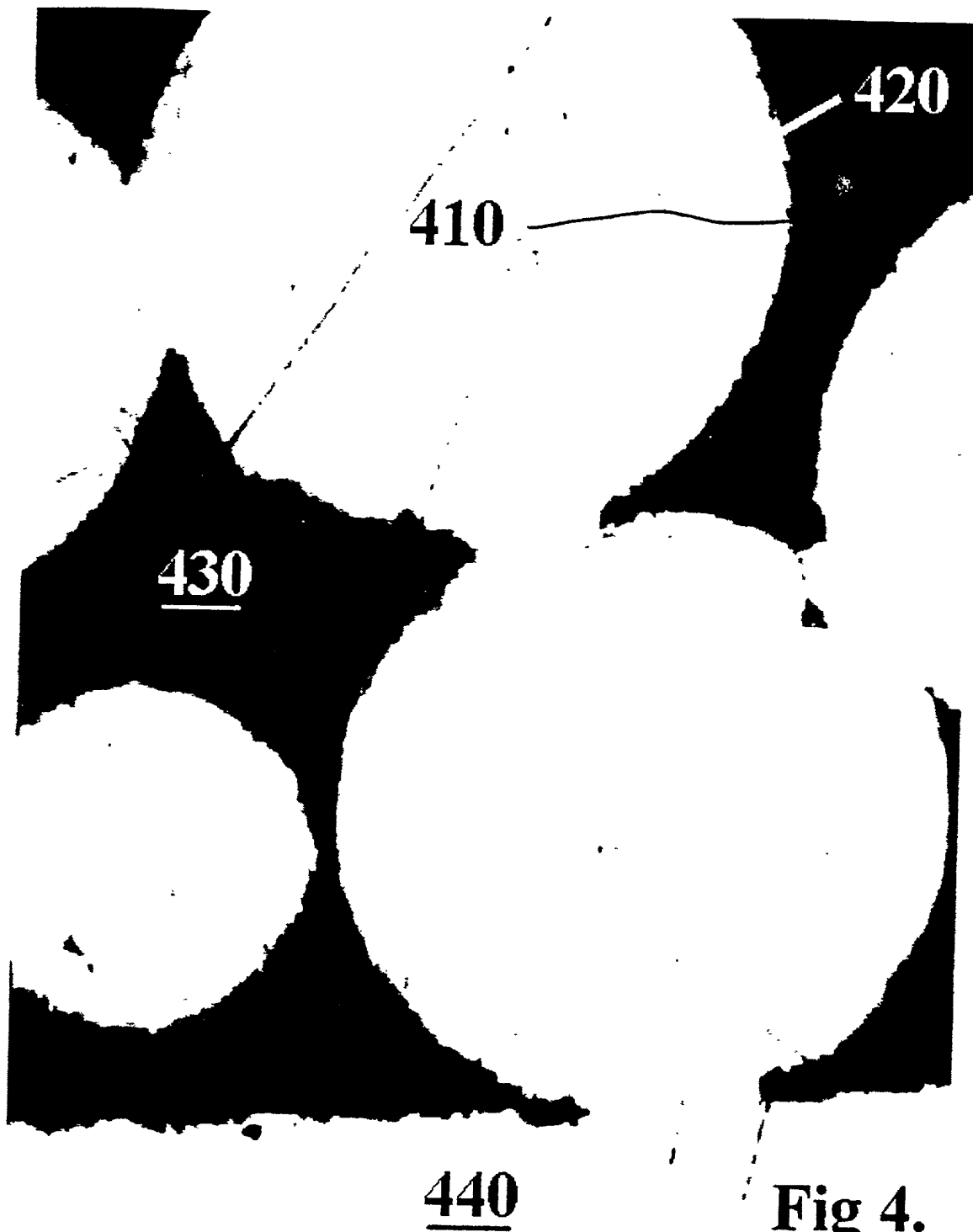


Fig. 2





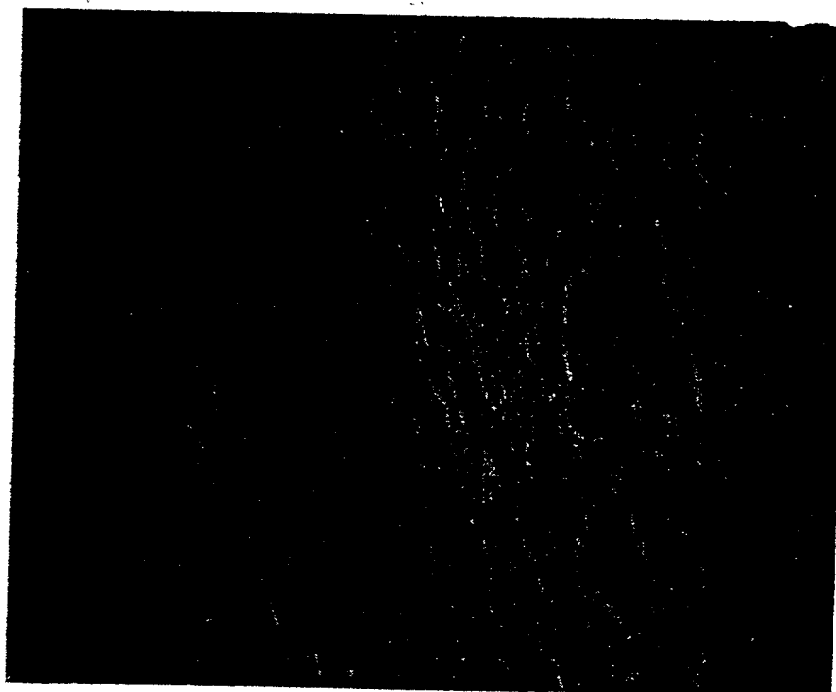
A schematic diagram of a plasma reactor. At the top, two arrows labeled "neutral gas" and "reactive gas" point into a central chamber. The chamber contains a substrate (510) with seven circular electrodes (520) arranged in a 1-2-2 pattern. The substrate is connected to a power source (540) at the bottom. The chamber walls are labeled 530, and the entire system is enclosed in a housing (550). A gas inlet/outlet is shown on the right side (560).

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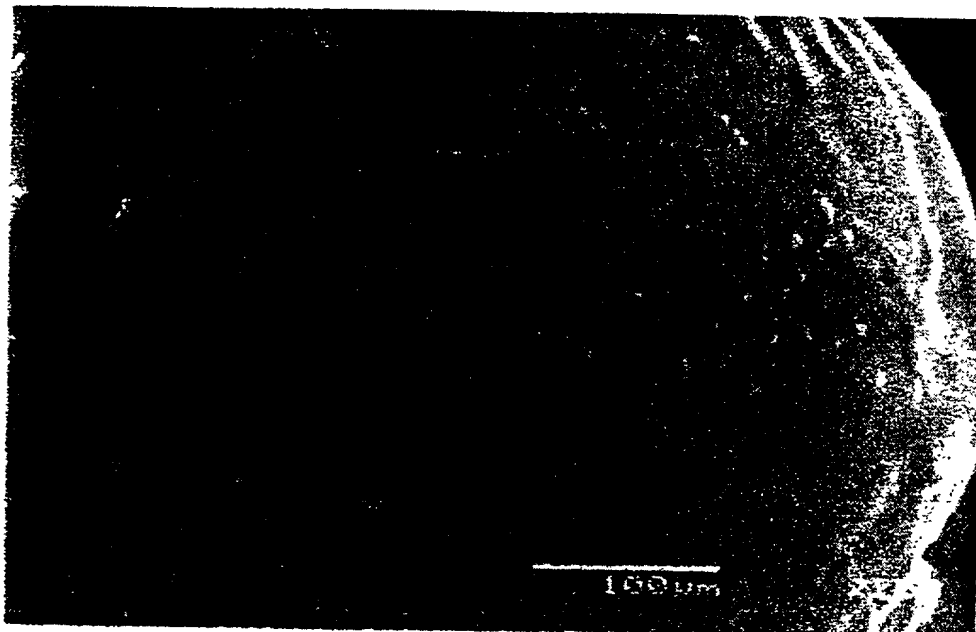
6A

SEM Micrograph of Group B at 300x after Electrochemical Test.

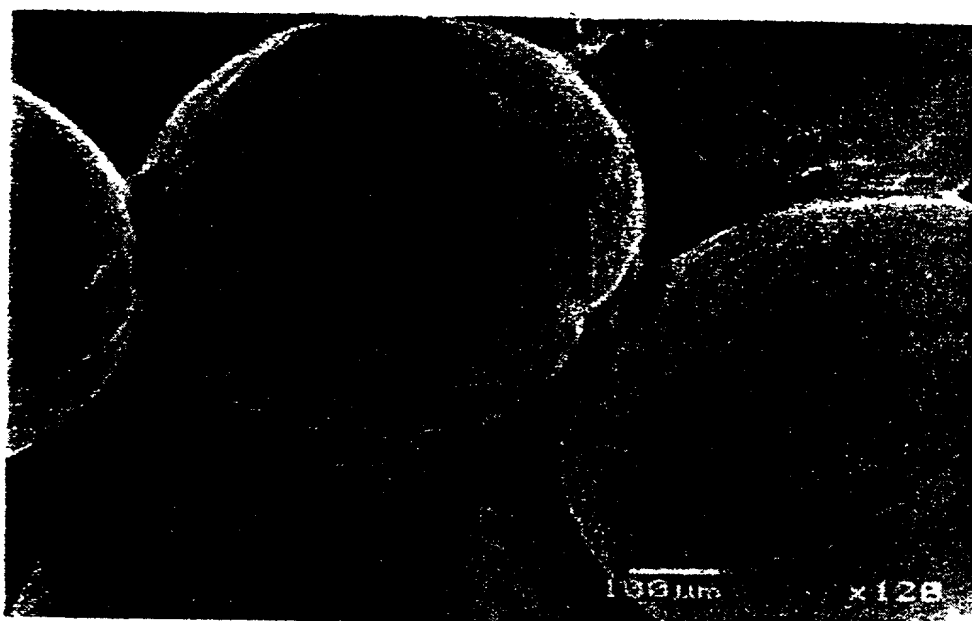


6B

SEM Micrograph of Group B at 700x after electrochemical test.



7A

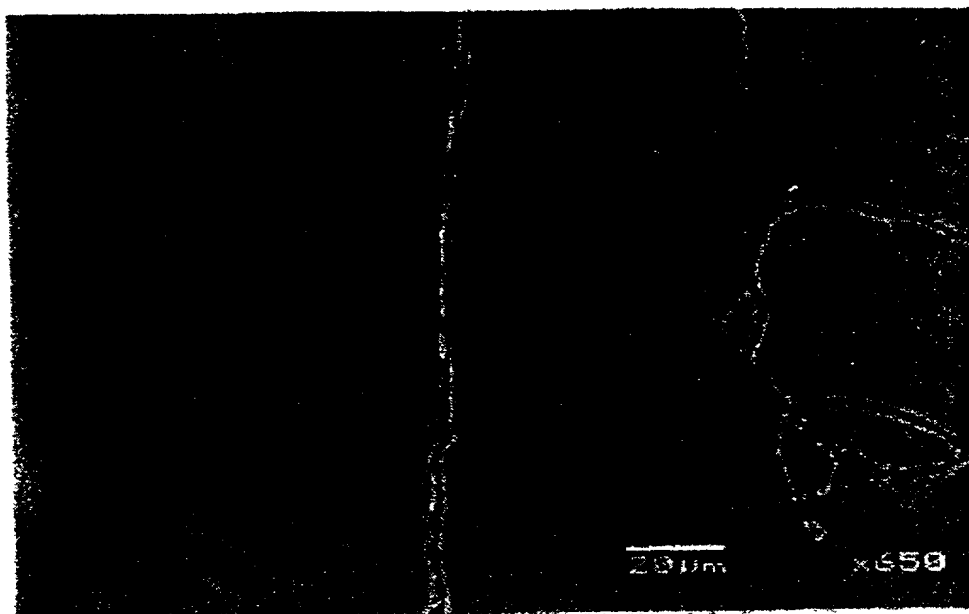


7B

SEM micrographs of the Hayes CrCoMo sample after ASTM F746 corrosion test indicates intergranular corrosion attacks.



7C

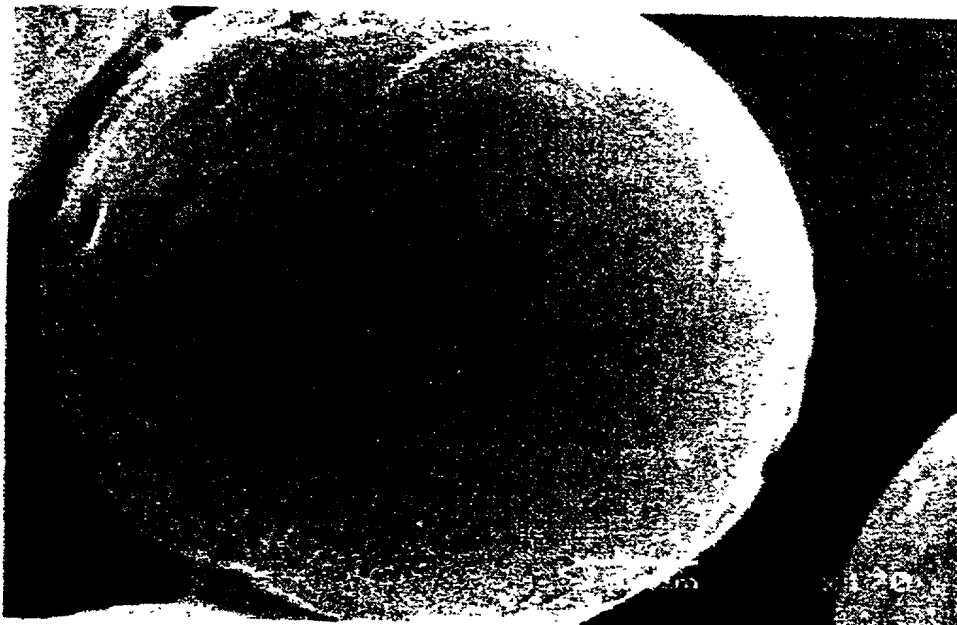


7D

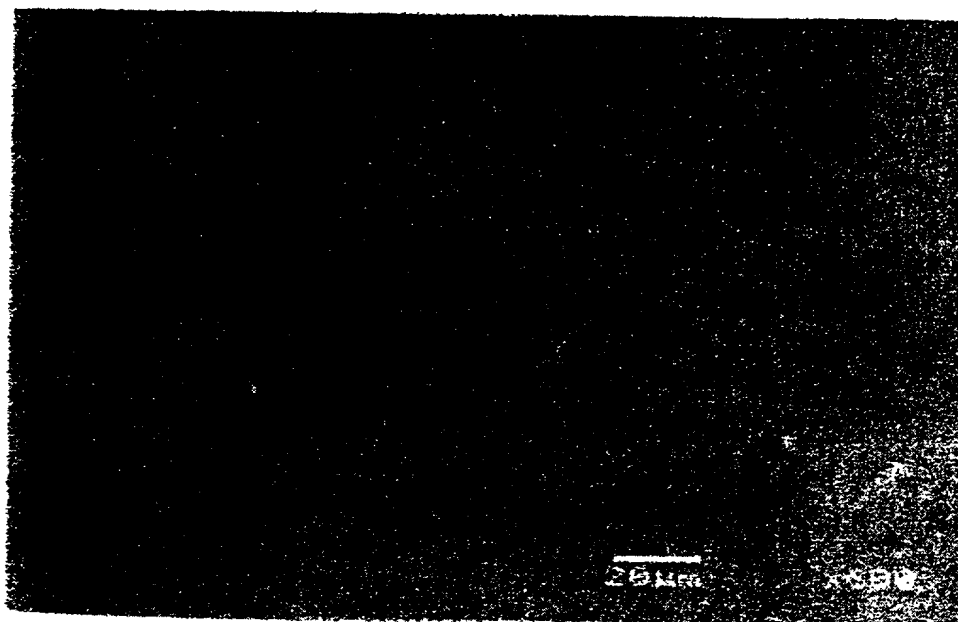
SEM micrographs of the Hayes CrCoMo sample after ASTM F746 corrosion test exhibiting corrosion attacks.

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8A



8B

SEM micrographs of the Hayes CrCo sample prior to any corrosion test.